

Safety Data Sheet

Version 1.0
Revision Date 02/15/2019

SDS Number 300000078613
Print Date 04/05/2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Dynasolve 185

Product Use Description : Polymer Remover

Manufacturer/Importer/Distributor : Versum Materials US, LLC
8555 South River Parkway
Tempe, AZ 85284-2601
Exporter EIN No. 47-5632014
www.versummaterials.com

Telephone : 800 837 2724

Emergency telephone number (24h) : 1-800-424-9300
(+1) 703-741-5970 (CHEMTREC)

2. HAZARDS IDENTIFICATION

GHS classification

Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 2A
Toxic to reproduction - Category 1B

GHS label elements

Hazard pictograms/symbols



Signal Word: Danger

Hazard Statements:

H315: Causes skin irritation.
H319: Causes serious eye irritation.
H360: May damage fertility or the unborn child.

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Precautionary Statements:

- Prevention : P264:Wash thoroughly after handling.
P280:Wear protective gloves/protective clothing/eye protection/face protection.
P201:Obtain special instructions before use.
P202:Do not handle until all safety precautions have been read and understood.
P281:Use personal protective equipment as required.
- Response : P305+P351+P338 :IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 :If eye irritation persists: Get medical advice/attention.
P302+P352 :IF ON SKIN: Wash with plenty of water/...
P332+P313 :If skin irritation occurs: Get medical advice/attention.
P308+P313 :If exposed or concerned: Get medical advice/attention.
P321 :Specific treatment (see on this label).
P362+P364 :Take off contaminated clothing and wash it before reuse.
- Storage : P405:Store locked up.
- Disposal : P501:Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazards not otherwise classified

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (Weight)
Methyl-2-pyrrolidinone, 1-	872-50-4	75% - 95 %
Ethylene glycol phenyl ether	122-99-6	5% - 20 %
4-Nonylphenol, branched, ethoxylated	127087-87-0	0.5% - 2 %

4. FIRST AID MEASURES

- General advice : Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
- Eye contact : Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses.
- Skin contact : Wash off immediately with plenty of water for at least 20 minutes. Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay.

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- Ingestion : Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side.
- Inhalation : Treat symptomatically. Move to fresh air.
- Most important symptoms/effects - acute and delayed : Eye disease. Skin disorders and Allergies.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam.
Carbon dioxide (CO₂).
Dry chemical.
Dry sand.
Limestone powder.
- Specific hazards : Ammonia gas may be liberated at high temperatures. In case of incomplete combustion an increased formation of oxides of nitrogen (NO_x) is to be expected. Incomplete combustion may form carbon monoxide. Burning produces noxious and toxic fumes. In the event of fire, cool tanks with water spray . Fire or intense heat may cause violent rupture of packages.
- Special protective equipment for fire-fighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions, Protective Equipment, and Emergency Procedures : Use self-contained breathing apparatus and chemically protective clothing. Remove all sources of ignition. Evacuate personnel to safe areas.
- Environmental precautions : Use appropriate containment to avoid environmental contamination. Do not allow spill to enter into sewers or waterways. Construct a dike to prevent spreading.
- Methods for cleaning up : Call Emergency Response number for advice. Approach suspected leak areas with caution. Absorb with inert absorbent materials such as: Dry sand. Vermiculite. Activated charcoal. Place in appropriate chemical waste container.
- Additional advice : If possible, stop flow of product.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes. Use personal protective equipment. When using, do not eat, drink or smoke.

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Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in a dry, cool place. Keep away from oxidizers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures

Provide readily accessible eye wash stations and safety showers.
Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Personal protective equipment

- Respiratory protection : Wear appropriate respirator when ventilation is inadequate.
- Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eye protection : Chemical resistant goggles must be worn.
- Skin and body protection : Long sleeve shirts and trousers without cuffs.
- Environmental exposure controls : Use appropriate containment to avoid environmental contamination. Do not allow spill to enter into sewers or waterways.
- Special instructions for protection and hygiene : Provide readily accessible eye wash stations and safety showers.

Exposure limit(s)

Methyl-2-pyrrolidinone, 1-	Time Weighted Average (TWA): WEEL	10 ppm	40 mg/m3
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9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Liquid. Colorless - Light yellow
- Odor : No data available.
- Odor threshold : No data available.
- pH : No data available.
- Melting point/range : No data available.
- Boiling point/range : > 369 °F (> 187.2 °C)

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Flash point	: 201 °F (94 °C) Pensky-Martens Closed Cup
Evaporation rate	: No data available.
Flammability (solid, gas)	: Refer to product classification in Section 2
Upper/lower explosion/flammability limit	: No data available.
Vapor pressure	: 0.22 mmHg
Water solubility	: No data available.
Relative vapor density	: No data available.
Relative density	: 1.04 (water = 1)
Partition coefficient: n-octanol/water [log Kow]	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Viscosity	: No data available.
Density	: No data available. : 64.925 lb/ft ³ (1.04 g/cm ³)

10. STABILITY AND REACTIVITY

Chemical Stability	: Stable under normal conditions.
Conditions to avoid	: No data available.
Materials to avoid	: Oxidizing agents.
Hazardous decomposition products	: Carbon monoxide. Carbon dioxide (CO ₂). Nitrogen oxides (NO _x).
Possibility of hazardous Reactions/Reactivity	: No data available.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Likely routes of exposure

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- Effects on Eye : Irritating to eyes.
- Effects on Skin : Causes skin irritation.
- Inhalation Effects : Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.
- Ingestion Effects : May be harmful if swallowed.
- Symptoms : No data available.

Acute toxicity

Acute Oral Toxicity : No data is available on the product itself.

Acute Oral Toxicity - Components

Methyl-2-pyrrolidinone, 1-	LD50 : 3,914 mg/kg	Species : Rat
Ethylene glycol phenyl ether	LD50 : 1,840 mg/kg	Species : Rat

Inhalation : No data is available on the product itself.

Inhalation - Components

Methyl-2-pyrrolidinone, 1-	LC50 (4 h) : > 5.1 mg/l	Species : Rat
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Acute Dermal Toxicity : No data is available on the product itself.

Acute Dermal Toxicity - Components

Methyl-2-pyrrolidinone, 1-	LD50 : 8,000 mg/kg	Species : Rabbit
Ethylene glycol phenyl ether	LD50 : 14,391 mg/kg	Species : Rat

Skin corrosion/irritation : Irritating to skin.

Serious eye damage/eye irritation : Irritating to eyes.

Sensitization. : No data available.

Chronic toxicity or effects from long term exposures

Carcinogenicity : No data available.

Reproductive toxicity : 1-Methyl-2-Pyrrolidone has caused embryotoxic and teratogenic effects in laboratory animals.

Germ cell mutagenicity : No data is available on the product itself.

Specific target organ systemic toxicity (single exposure) : No data available.

Specific target organ systemic : No data available.

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toxicity (repeated exposure)

Aspiration hazard : No data available.

Delayed and Immediate Effects and Chronic Effects from Short and Long Term Exposure

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Reproductive toxin. Eye disease., Skin disorders and Allergies.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity : No data is available on the product itself.

Toxicity to fish - Components

Methyl-2-pyrrolidinone, 1-

LC50 (96 h) : 832 mg/l

Species : Bluegill
(Lepomis macrochirus)

Methyl-2-pyrrolidinone, 1-

LC50 (96 h) : 4,000 mg/l

Species : Golden Orfe
(Leuciscus lodus L,
Golden variety)

Toxicity to daphnia - Components

Methyl-2-pyrrolidinone, 1-

EC 50 (48 h) : > 4,000 mg/l

Species : Daphnia

Toxicity to other organisms : No data available.

Persistence and degradability

Biodegradability : No data is available on the product itself.

Mobility : No data available.

Bioaccumulation : No data is available on the product itself.

Bioaccumulation - Components

Methyl-2-pyrrolidinone, 1-

Negligible bioaccumulation potential.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products : The product should not be allowed to enter drains, water courses or the soil; dispose of this material and its container in a safe way. Waste from residues / unused products: do not discharge effluent containing this product into waterways or sewer systems without proper authorization. Contact supplier

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if guidance is required.

Contaminated packaging : Dispose of container and unused contents in accordance with federal, state, and local requirements.

14. TRANSPORT INFORMATION

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

TDG

Not dangerous goods

Further Information

Not classified as dangerous in the meaning of transport regulations. The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, contact customer service.

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA) 12(b) Component(s):

None.

Country	Regulatory list	Notification
USA	TSCA	Included on Inventory.
EU	EINECS	Not on Inventory.
Canada	DSL	Included on Inventory.
Australia	AICS	Included on Inventory.
Japan	ENCS	Not on Inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Included on Inventory.

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EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification
Acute Health Hazard Chronic Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level
Methyl-2-pyrrolidinone, 1-
Ethylene glycol phenyl ether

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)
WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.
Methyl-2-pyrrolidinone, 1-

16. OTHER INFORMATION

HMIS Rating

Health : 3*
Flammability : 1
Physical hazard : 0

Prepared by : Versum Materials, Product Regulatory Department

Telephone : 800 837 2724

Preparation Date : 04/05/2019

For additional information, please visit Versum Materials' Product Stewardship web site.
<http://www.versummaterials.com/productstewardship/>
